

# Jaza Syed

Software Developer + Machine Learning Researcher

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**Summary** Software engineer with experience in industrial machine learning and web development and a strong scientific and mathematical background.

## Education

Sept. 2014 - June 2018 **King's College, University of Cambridge**  
**BA (Hons)+ MEng Engineering [Merit]**

- Years 1 and 2: Mechanical, structural, materials and electronic engineering
- Years 3 and 4: Modules covering deep learning, signal processing, computer architecture, computer graphics, computer vision, systems and control, computational neuroscience, synthetic biology
- Master's thesis: Generation via procedural and neural methods of synthetic training data for a neural network to segment 3D fluorescence microscopy images of neurons (supervised by Timothy O'Leary)

## Experience

June 2020 - May 2022 **Software Engineer - Ito World** - Remote

Worked on the backend for a web application for transit data management and on import and export pipelines for schedules. The backend server was primarily implemented in C++ with some components in Java and Python (Django) and was backed with Postgres and MongoDB. I also contributed to the frontend which was written in Typescript (Angular). I was part of a 100% remote team.

- Team made successful first delivery of internal data management application to an external customer
- I took leadership responsibility for mission-critical features

Aug. 2018 - Dec. 2019 **Deep Learning R&D Engineer - Asaphus Vision GmbH** - Berlin, DE

Implemented novel CNN-based algorithms for eye tracking, taking responsibility for all aspects of development from data collection to model deployment. Python was used for prototyping and model training and the algorithm was deployed as part of a C++ library.

- Improved network performance (whilst maintaining 30 FPS on-device inference on an embedded processor) to standard required for deployment in series production vehicles
- Designed and implemented continuous testing of ML pipelines and the automation of several internal processes

**Skills** Python, C++(14/17), Cmake, Java, Typescript, SQL, MongoDB, Bash, Docker, Gitlab

**Misc** UK Citizen / Indian OCI card - no work permit required in Europe or India  
Full UK Driving Licence (Cat B)